



REDUCTORES Y MOTORREDUCTORES DE TORNILLO SIN FIN CON PRE-REDUCCIÓN HELICAL WORM GEARBOXES REDUCTEUR ET MOTOREDUCTEURS A ROUE ET VIS SANS FIN HELICOIDaux

Página/Page/Page

Información general	<i>General information</i>	Informations générales	37
Versiones	<i>Version</i>	Version	37
Formas constructivas	<i>Design</i>	Forme de construction	38
Posiciones de montaje	<i>Mounting positions</i>	Positions de montage	39
Prestaciones de los reductores	<i>Performance</i>	Performances	40
Posibles predisposiciones	<i>Possible set-ups</i>	Possibilités de montage	42
Prestaciones de los motorreductores	<i>Performance of motor reduction gear</i>	Performances du motorréducteur	42

SERIE / SERIES / SERIE

S ▶ 43

Simbología y nomenclatura	<i>Symbols and designation</i>	Symboles et désignation	43
Dimensiones serie S	<i>Dimensions of S Series</i>	Dimensions Série S	44
Eje hueco	<i>Hollow shaft</i>	Arbre creux	45
Lista de repuestos	<i>Spare parts list</i>	Liste des pièces détachées	46
Accesorios	<i>Accessories</i>	Accessoires	26

SERIE / SERIES / SERIE

B ▶ 47

Simbología y nomenclatura	<i>Symbols and designation</i>	Symboles et désignation	47
Dimensiones serie B	<i>Dimensions of B Series</i>	Dimensions Série B	48
Eje hueco	<i>Hollow shaft</i>	Arbre creux	49
Lista de repuestos	<i>Spare parts list</i>	Liste des pièces détachées	50
Accesorios	<i>Accessories</i>	Accessoires	34

5.1 INFORMACIÓN GENERAL

Este tipo de reductores son, en la práctica, un reductor de tornillo normal al cual se le monta una reducción primaria de engranajes cilíndricos en el eje de entrada.
Se obtiene de esta manera, un par más elevado y un mayor rendimiento.
Está disponible en versiones preparadas para acoplar el motor IEC, o la versión completa con el motor.

5.1 GENERAL INFORMATION

*These are common reduction gears with a spur gear first reduction stage added at the input end.
This design provides higher torque performance and efficiency, reduction ratio being equal.
Also available in versions ready to accommodate IEC motor or complete with motor.*

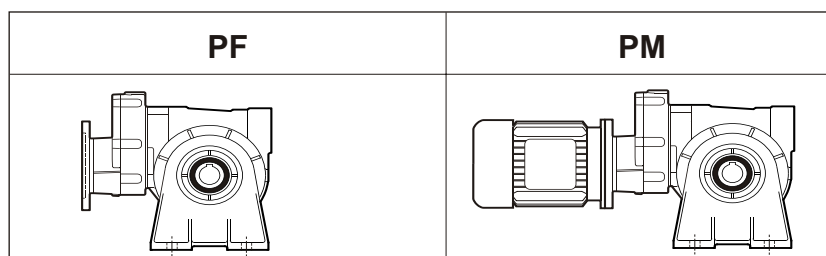
5.1 INFORMATIONS GENERALES

Ce sont des réducteurs standards avec un premier train d'engrenage à denture droite monté à l'entrée du réducteur. Cette construction permet d'obtenir un couple et un rendement plus élevés à rapport de réduction égal. Egalement possible avec bride IEC livrée montée avec moteur.

5.2 VERSIONES

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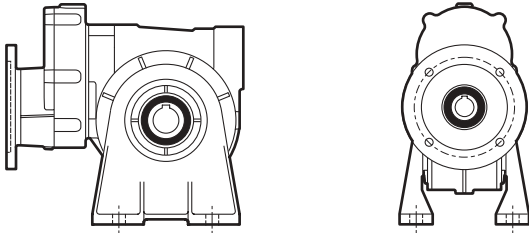


5.3 FORMAS CONSTRUCTIVAS

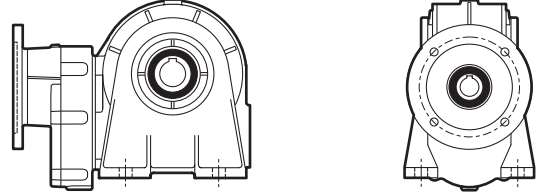
5.3 VERSIONS

5.3 FORMES DE CONSTRUCTION

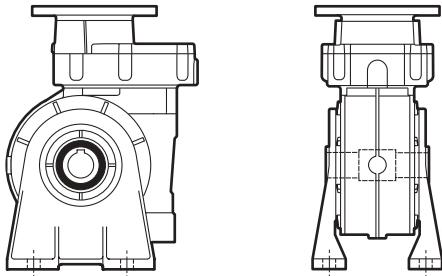
PF.../A



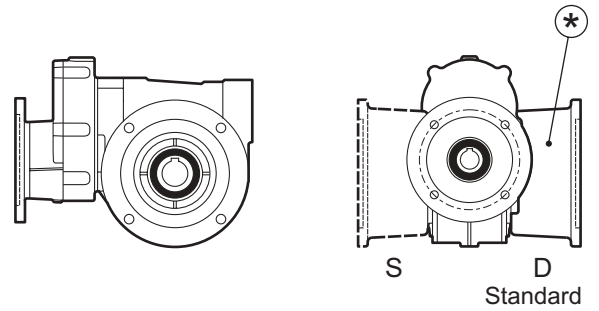
PF.../B



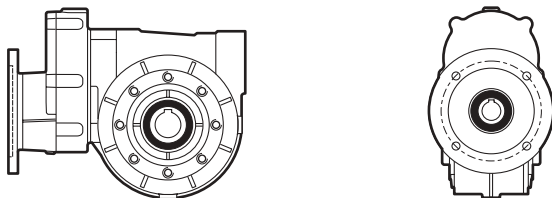
PF.../V



PF.../F



PF.../P



* Si no se especifica lo contrario, la brida de salida vendrá montada según catálogo en la posición estándar D (Derecha)

* Unless otherwise specified, the output flange is installed in the standard position D (right) as shown in the catalogue.

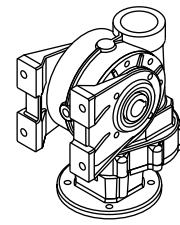
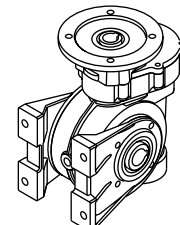
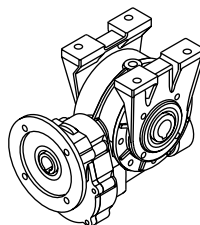
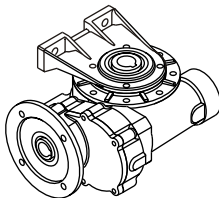
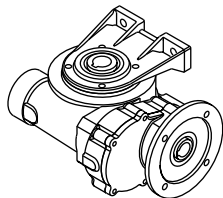
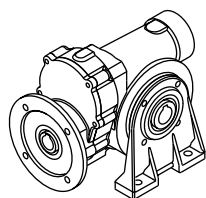
* Sauf indication contraire, la bride de sortie est montée dans la position standard D (droite) conformément au catalogue.



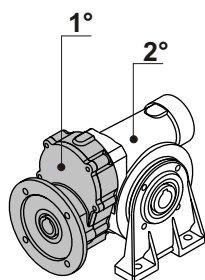
5.4 POSICIONES DE MONTAJE

5.4 MOUNTING POSITIONS

5.4 POSITIONS DE MONTAGE



B3	B6	B7	B8	V5	V6
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Tamaño Frame size Taille		1° 2°	Cantidad de Aceite Oil quantity Quantité d'huile [lt]		Peso Weight Poids [kg]		
			Posición de montaje Mounting position Position de montage		Forma constructiva Design Forme de construction		
			B3 - V5 - V6	B6 - B7 - B8	A - B - V	F	P
	40	1°	0.06	0.06	3.6	3.6	3.6
		2°	0.18	0.15			
	50	1°	0.10	0.10	6.2	6.2	6.2
		2°	0.28	0.25			
	63	1°	0.14	0.14	9.5	9.5	8.8
		2°	0.6	0.15			
	70	1°	0.25	0.25	12.5	12.5	11.5
		2°	0.8	0.7			
	85	1°	0.25	0.25	28	26	24
		2°	1.2	1.1			

1° - Cantidad de aceite relativa al primer estadio de reducción de engranajes cilíndricos

1st = Oil qty in spur gear 1st reduction stage

1°= quantité d'huile pour le 1er train de réduction à denture droite

2° - Cantidad de aceite relativa al segundo estadio de reducción de engranajes helicoidales con modelo Z1

2nd = Oil qty in helical gear 2nd reduction stage with Z1 model

2°= quantité d'huile pour le 2e train de réduction à engrenages hélicoïdaux avec le modèle Z1.

Especificar siempre en el pedido la posición de montaje y la forma constructiva.

Specify the version and the mounting position when ordering.

Spécifier la position de montage et la forme de construction lors de la commande.



5.5 PRESTACIONES DE LOS REDUCTORES

5.5 PERFORMANCE OF REDUCTION GEAR

5.5 PERFORMANCES DU REDUCTEUR

i1xi2	i	PF 40														
		n ₁ = 900 min ⁻¹					n ₁ = 1400 min ⁻¹					n ₁ = 2800 min ⁻¹				
		n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd	n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd	n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd
3x15	45	20	64	0.18	0.25	0.74	31	55	0.23	0.32	0.76	62	52	0.43	0.59	0.78
3x20	60	15	57	0.13	0.17	0.70	23	48	0.16	0.22	0.72	47	46	0.30	0.41	0.75
3x30	90	10	67	0.12	0.16	0.61	16	58	0.15	0.21	0.63	31	55	0.26	0.36	0.68
3x40	120	7.5	63	0.09	0.12	0.54	12	54	0.12	0.16	0.56	23	50	0.19	0.26	0.62
3x50	150	6.0	64	0.08	0.11	0.52	9.3	55	0.10	0.13	0.54	19	51	0.17	0.23	0.60
3x60	180	5.0	57	0.06	0.09	0.47	7.8	49	0.08	0.11	0.50	16	45	0.14	0.19	0.54
3x70	210	4.3	46	0.05	0.07	0.43	6.7	41	0.06	0.09	0.46	13	38	0.11	0.15	0.48
3x80	240	3.8	42	0.05	0.06	0.37	5.8	37	0.06	0.08	0.40	12	34	0.10	0.14	0.42
3x100	300	3.0	40	0.04	0.05	0.34	4.7	38	0.05	0.07	0.38	9.3	35	0.09	0.12	0.40

i1xi2	i	PF 50														
		n ₁ = 900 min ⁻¹					n ₁ = 1400 min ⁻¹					n ₁ = 2800 min ⁻¹				
		n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd	n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd	n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd
3x15	45	20	104	0.30	0.40	0.73	31	90	0.39	0.53	0.75	62	87	0.72	0.98	0.78
3x20	60	15	117	0.27	0.36	0.68	23	89	0.31	0.42	0.70	47	85	0.57	0.78	0.73
3x30	90	10	113	0.20	0.27	0.59	16	97	0.26	0.35	0.61	31	93	0.46	0.62	0.66
3x40	120	7.5	117	0.17	0.23	0.54	12	101	0.22	0.30	0.56	23	89	0.35	0.47	0.62
3x50	150	6.0	105	0.13	0.18	0.51	9.3	98	0.18	0.25	0.53	19	90	0.30	0.40	0.59
3x60	180	5.0	98	0.11	0.15	0.47	7.8	86	0.14	0.19	0.50	16	82	0.25	0.34	0.54
3x70	210	4.3	93	0.10	0.13	0.42	6.7	80	0.12	0.16	0.47	13	70	0.20	0.27	0.49
3x80	240	3.8	69	0.07	0.09	0.39	5.8	65	0.09	0.12	0.44	12	60	0.16	0.22	0.46
3x100	300	3.0	67	0.06	0.08	0.35	4.7	65	0.08	0.11	0.40	9.3	60	0.14	0.19	0.42

i1xi2	i	PF 63														
		n ₁ = 900 min ⁻¹					n ₁ = 1400 min ⁻¹					n ₁ = 2800 min ⁻¹				
		n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd	n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd	n ₂ [min ⁻¹]	T _{2M} [Nm]	P [kW] [HP]		Rd
3x15	45	20	193	0.54	0.73	0.75	31	175	0.74	1.0	0.77	62	151	1.2	1.7	0.80
3x20	60	15	201	0.44	0.60	0.72	23	188	0.62	0.84	0.74	47	152	0.97	1.3	0.77
3x25	75	12	208	0.38	0.52	0.69	19	192	0.53	0.72	0.71	37	157	0.83	1.1	0.74
3x30	90	10	222	0.37	0.50	0.63	16	202	0.50	0.68	0.66	31	161	0.75	1.0	0.70
3x35	105	8.6	206	0.31	0.42	0.60	13	203	0.44	0.60	0.64	27	163	0.68	0.92	0.67
3x40	120	7.5	199	0.27	0.36	0.58	12	192	0.39	0.53	0.60	23	165	0.62	0.84	0.65
3x45	135	6.7	192	0.25	0.34	0.54	10	181	0.34	0.46	0.58	21	157	0.56	0.76	0.61
3x50	150	6.0	175	0.22	0.30	0.50	9.3	169	0.30	0.40	0.55	19	137	0.47	0.64	0.57
3x60	180	5.0	170	0.19	0.26	0.47	7.8	159	0.25	0.34	0.52	16	134	0.40	0.54	0.55
3x70	210	4.3	156	0.16	0.22	0.44	6.7	146	0.21	0.28	0.49	13	128	0.35	0.47	0.51
3x80	240	3.8	144	0.14	0.19	0.41	5.8	133	0.18	0.24	0.45	12	120	0.30	0.41	0.49
3x100	300	3.0	126	0.11	0.15	0.36	4.7	122	0.15	0.20	0.40	9.3	119	0.27	0.37	0.43



		PF 70														
i1xi2	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					$n_1 = 2800 \text{ min}^{-1}$				
		n_2 [min ⁻¹]	T_{2M} [Nm]	P [kW] [HP]		Rd	n_2 [min ⁻¹]	T_{2M} [Nm]	P [kW] [HP]		Rd	n_2 [min ⁻¹]	T_{2M} [Nm]	P [kW] [HP]		Rd
3x15	45	20	308	0.85	1.2	0.76	31	276	1.2	1.6	0.78	62	224	1.8	2.4	0.81
3x20	60	15	307	0.66	0.90	0.73	23	276	0.90	1.2	0.75	47	223	1.4	1.9	0.78
3x25	75	12	306	0.55	0.75	0.70	19	276	0.75	1.0	0.72	37	216	1.1	1.5	0.76
3x30	90	10	306	0.50	0.68	0.64	16	287	0.70	0.95	0.67	31	216	1.0	1.4	0.70
3x35	105	8.6	305	0.45	0.61	0.61	13	285	0.62	0.84	0.64	27	220	0.92	1.3	0.67
3x40	120	7.5	295	0.40	0.54	0.58	12	276	0.55	0.75	0.61	23	234	0.88	1.2	0.65
3x45	135	6.7	279	0.35	0.48	0.56	10	234	0.44	0.60	0.58	21	222	0.77	1.1	0.63
3x50	150	6.0	270	0.32	0.44	0.53	9.3	230	0.40	0.55	0.56	19	212	0.68	0.92	0.61
3x60	180	5.0	257	0.27	0.37	0.50	7.8	227	0.35	0.48	0.53	16	192	0.55	0.75	0.57
3x70	210	4.3	255	0.25	0.34	0.46	6.7	198	0.29	0.40	0.48	13	171	0.45	0.62	0.53
3x80	240	3.8	237	0.22	0.30	0.43	5.8	185	0.25	0.34	0.45	12	155	0.38	0.52	0.50
3x100	300	3.0	205	0.17	0.23	0.38	4.7	170	0.21	0.28	0.40	9.3	149	0.33	0.45	0.44

		PF 85														
i1xi2	i	$n_1 = 900 \text{ min}^{-1}$					$n_1 = 1400 \text{ min}^{-1}$					$n_1 = 2800 \text{ min}^{-1}$				
		n_2 [min ⁻¹]	T_{2M} [Nm]	P [kW] [HP]		Rd	n_2 [min ⁻¹]	T_{2M} [Nm]	P [kW] [HP]		Rd	n_2 [min ⁻¹]	T_{2M} [Nm]	P [kW] [HP]		Rd
3x15	45	20	417	1.2	1.6	0.76	31	401	1.7	2.3	0.79	62	330	2.7	3.6	0.81
3x20	60	15	424	0.90	1.2	0.74	23	395	1.3	1.7	0.77	47	303	1.9	2.5	0.80
3x25	75	12	424	0.75	1.0	0.71	19	397	1.1	1.4	0.74	37	318	1.7	2.3	0.78
3x30	90	10	440	0.72	0.98	0.64	16	416	1.0	1.4	0.68	31	366	1.6	2.2	0.72
3x35	105	8.6	433	0.62	0.84	0.63	13	403	0.85	1.2	0.66	27	343	1.4	1.8	0.71
3x40	120	7.5	426	0.54	0.73	0.62	12	400	0.76	1.0	0.64	23	367	1.3	1.8	0.69
3x45	135	6.7	419	0.49	0.67	0.60	10	387	0.68	0.92	0.62	21	347	1.1	1.5	0.67
3x50	150	6.0	408	0.45	0.61	0.57	9.3	369	0.60	0.82	0.60	19	315	0.95	1.3	0.65
3x60	180	5.0	392	0.38	0.52	0.54	7.8	355	0.50	0.68	0.58	16	304	0.80	1.1	0.62
3x70	210	4.3	355	0.32	0.43	0.50	6.7	323	0.42	0.57	0.54	13	296	0.70	0.95	0.59
3x80	240	3.8	323	0.28	0.38	0.46	5.8	310	0.37	0.50	0.51	12	279	0.60	0.82	0.57
3x100	300	3.0	310	0.25	0.34	0.39	4.7	300	0.32	0.43	0.46	9.3	241	0.46	0.63	0.51



5.6 POSIBLES PREDISPOSICIONES

5.6 POSSIBLE SET-UPS

5.6 POSSIBILITES DE MONTAGE

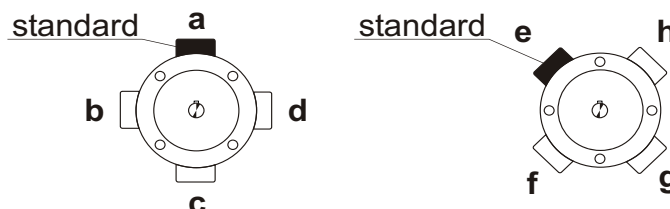
		PAM B5 - B14				
PAM		56	63	71	80	90
PF 40	B5					
	B14	*				
PF 50	B5					
	B14		*			
PF 63	B5					
	B14			*		
PF 70	B5					
	B14			*	*	*
PF 85	B5					
	B14				*	*

* La brida B14 tiene los taladros de acople al motor dispuestos en axis. Verificar las dimensiones de montaje para el correcto posicionamiento de la caja de bornes del motor.

* B14 flanges have the motor mounting holes arranged along the axes; check overall dimensions to determine correct position of motor terminal box.

* Les Brides B14 ont les trous de fixation du moteur le long des axes. Vérifier les encombrements pour déterminer la position correcte de la boîte à bornes du moteur.

Posición caja de bornes
Terminal board position
Position de la boîte à bornes



5.7 PRESTACIONES DE LOS MOTORREDUCTORES

5.7 PERFORMANCE OF MOTOR REDUCTION GEAR

5.7 PERFORMANCES DU MOTO REDUCTEUR

		$n_1 = 1400 \text{ min}^{-1}$											
i		45	60	75	90	105	120	135	150	180	210	240	300
n2		31.1	23.3	18.7	15.6	13.3	11.7	10.4	9.3	7.8	6.7	5.8	4.7
40	P ₁ [kW]	0.18	0.18		0.18		0.18		0.13	0.13	0.09	0.09	0.09
	T ₂ [Nm]	42	53		70		83		72	80	60	59	70*
	F _s	1.7	1.3		1.1		1.0		1.2	0.9	1.1	0.9	0.6*
	PAM	63			63			63			56		
50	P ₁ [kW]	0.37	0.25		0.25		0.25		0.18	0.13	0.13	0.13	0.13
	T ₂ [Nm]	85	72		94		115		98	80	88	94*	106*
	F _s	1.7	1.3		1.1		1.0		1.2	0.9	1.1	0.9*	0.6*
	PAM	71			71			71			63		
63	P ₁ [kW]	0.75	0.55	0.55	0.37	0.37	0.37	0.25	0.25	0.25	0.25	0.25	0.25
	T ₂ [Nm]	177	167	200	150	170	182	134	141	160	180*	184*	205*
	F _s	1.0	1.1	1.0	1.4	1.2	1.1	1.4	1.2	1.0	0.8*	0.7*	0.6*
	PAM	80			80			71			71		
70	P ₁ [kW]	1.1	0.75	0.75	0.55	0.55	0.55	0.37	0.37	0.37	0.25	0.25	0.25
	T ₂ [Nm]	263	230	276	226	252	275	198	212	241	172	184	205*
	F _s	1.1	1.2	1.0	1.3	1.1	1.0	1.2	1.1	0.9	1.2	1.0	0.8
	PAM	90		80			71			71			71
85	P ₁ [kW]	1.5	1.1	1.1	0.75	0.75	0.75	0.55	0.55	0.55	0.37	0.37	0.25
	T ₂ [Nm]	364	347	416	313	355	393	314	338	392	286	309	235
	F _s	1.1	1.1	1.0	1.3	1.1	1.0	1.2	1.1	0.9	1.1	1.0	1.3
	PAM	90			80			71			71		

* Atención el par máximo permitido (T_{2M}) se tiene que calcular utilizando el factor de servicio T_{2M} = T₂ x F_s

* WARNING: Maximum allowable torque [T_{2M}] must be calculated using the following service factor: T_{2M} = T₂ x F_s

* ATTENTION : le couple maximum admissible [T_{2M}] doit être calculé en utilisant le facteur de service suivant : T_{2M} = T₂ x F_s



**REDUCTORES Y MOTORREDUCTORES DE CORONA SIN FIN CON PRE-REDUCCIÓN
WORM GEARBOXES AND WORMGEARED MOTORS WITH PRIMARY REDUCTION
REDUCTEURS ET MOTOREDUCTEURS A ROUE ET VIS SANS FIN AVEC REDUCTION
PRIMAIRE**

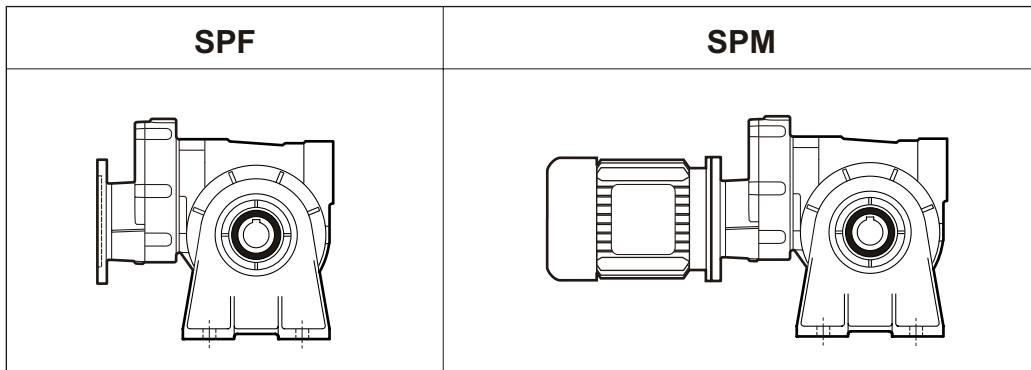


6.1 SIMBOLOGIA Y NOMENCLATURA 6.1 SYMBOLS AND DESIGNATION 6.1 SYMBOLES ET DESIGNATION

Versiones

Versions

Versions



Designación

Designation

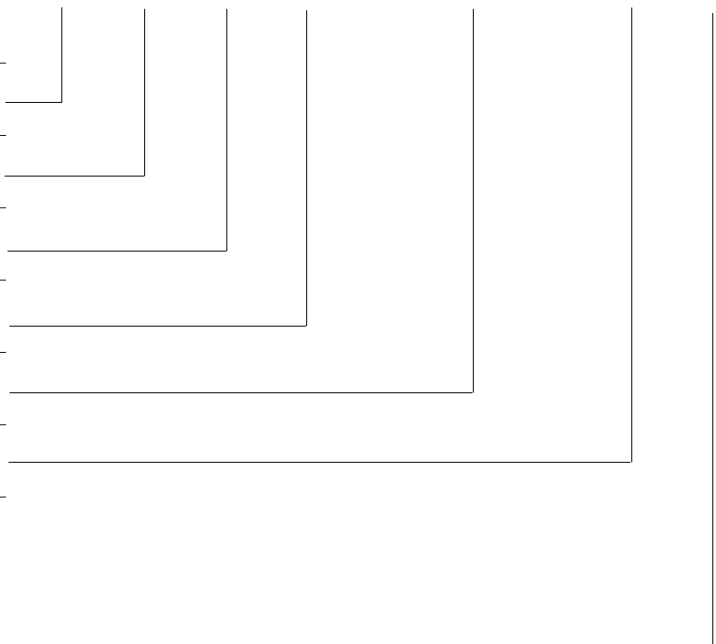
Désignation

SPF	50	A	1:120	PAM 71	B5	B3
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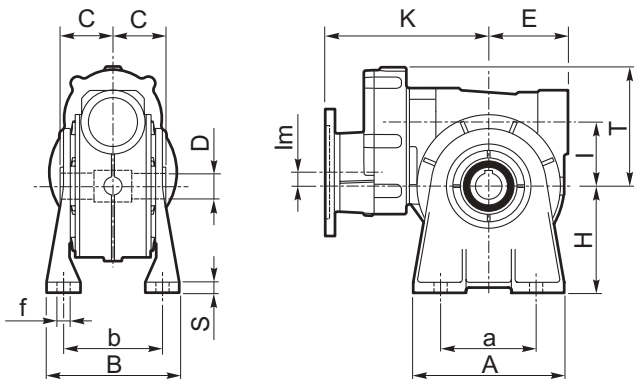
Versión <i>Version</i> Version	SPF- SPM
Tamaño <i>Frame size</i> Taille	40 - 50
Forma constructiva <i>Design</i> Forme de construction	A - B - V - F - P
Relación <i>Ratio</i> Rapport de réduction	45 ÷ 300
Ataque a motor <i>Motor coupling</i> Accouplement moteur	→ 38
Posición de montaje <i>Mounting position</i> Position de montage	→ 35

Opciones / Options / Options

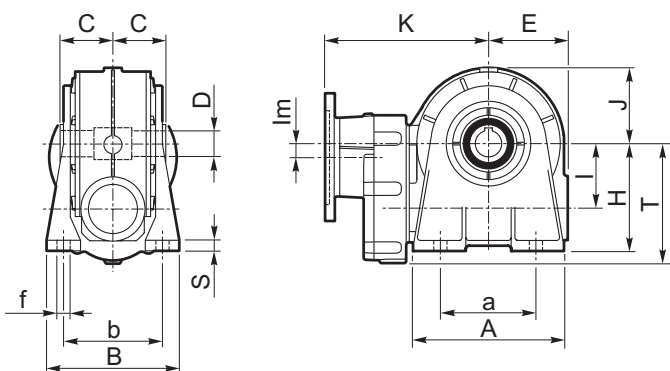
- Montaje brida de salida opuesto al montaje de catálogo (S)
Flange installed at opposite end as catalogue position (S)
Montage de la bride de sortie contraire au catalogue (S)
- Rodamientos cónicos en la corona
Worm wheel taper bearings
Roulements coniques sur la roue
- Sin fin prolongado
Double ended worm shaft
Vis avec deux arbres dépassants



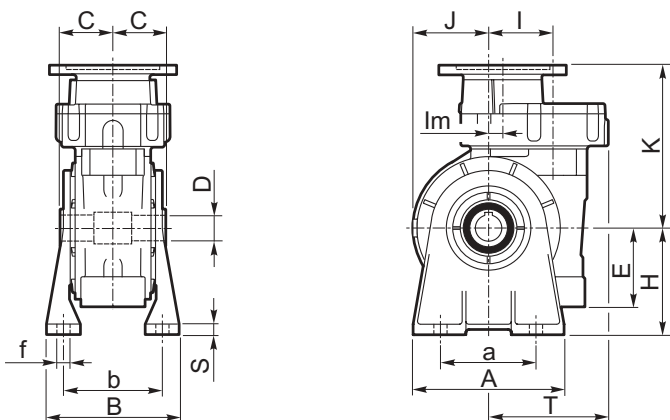
SPF.../A



SPF.../B

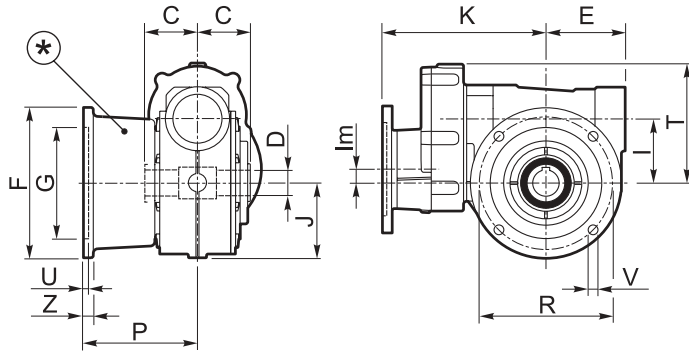


SPF.../V



S	A	a	B	b	C	D (H7)	E	f ∅	F ∅	F _p ∅	G (H8)	G _p (h8)	H	I	l _v	l _m	J	K	M ₂	P	P _p	R ∅	R _p ∅	S	T	U	V ∅	X	Z
40	106	70	102	84	41	19	60	7	140	100	95	60	71	40	40	0	53	123	n°4 M6x8	82	38	115	83	8	83	5	9	2	10
50	126	85	115	96/99	49	24	70	9	160	120	110	70	85	50	50	0	64	141	n°4 M8x10	92	46	130	85	12	96	5	9	2	10

SPF.../F



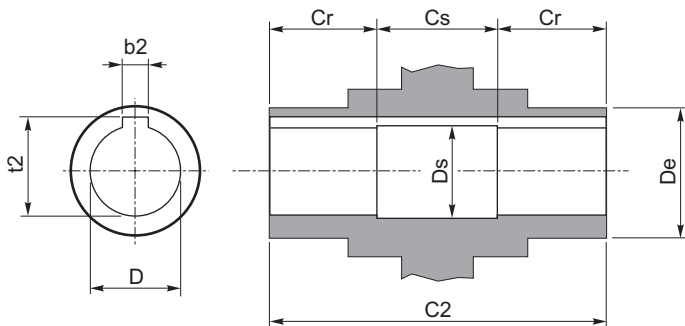
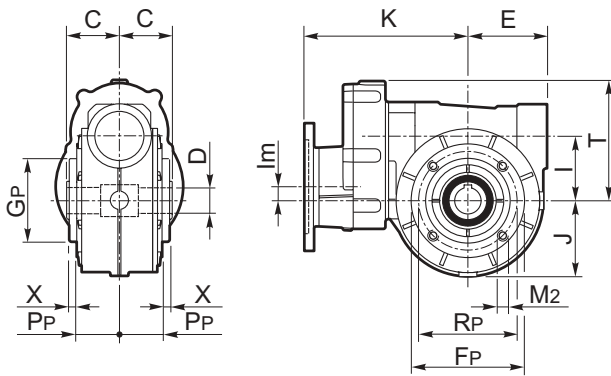
* **NOTA:** A partir del tamaño SP 50 la brida de salida F es modular, siendo ésta montada sobre la brida pendular S50P

* **NOTE:** Frame size SP 50 uses a modular output flange F mounted to the shaft-mounted flange S 50P.

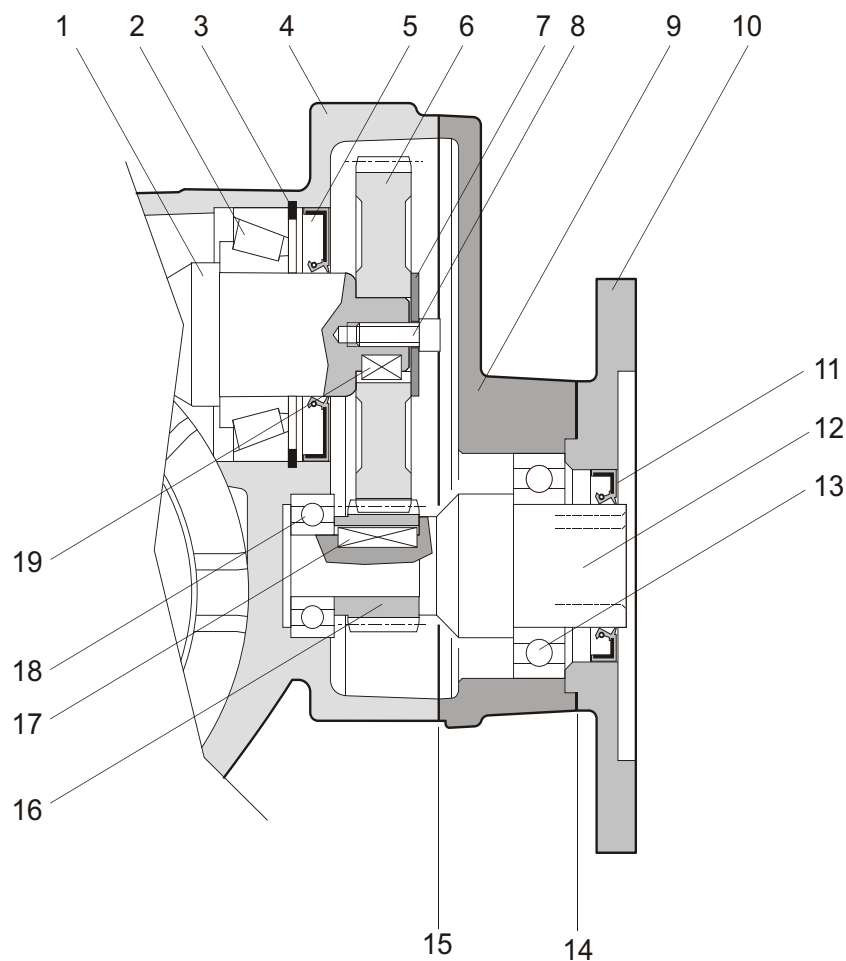
* **NOTE :** la taille SP 50 utilise une bride de sortie modulable F montée sur la bride pendulaire S 50 P.

Ver bridas especiales en pág. 20
See special flanges page 20
Voir brides spéciales en page 20.

SPF.../P



SP	b ₂ (H8)	D (H7)	D _e	D _s	t ₂	C ₂	C _r	C _s
40	6	19	30	19.5	21.8	82	30	22
50	8	24	40	24.5	27.3	98	35	28



	Rodamientos / Bearings / Roulements			Retenes / Oilseals Simmerring / Bagues d'étanchéité	
	Vers.	SPF - SPM		SPF - SPM	
	Pz. n. Part nb. Numéro de pièce	13	18	5	11
40	IEC: 56 - 63	6004 (20/42/12)	629 (9/26/8)	20/30/7	20/30/7
50	IEC: 63 - 71	6005 (25/47/12)	6201 (12/32/10)	25/47/7	25/35/7
63	IEC: 71 - 80	6006 (30/55/13)	6202 (15/35/11)	30/62/7	30/47/7
	IEC: 90	6007 (35/62/14)	6202 (15/35/11)	30/62/7	35/47/7
70	IEC: 71 - 80 - 90	6007 (35/62/14)	6004 (20/42/12)	40/68/10	35/56/7
85	IEC: 71 - 80 - 90	6007 (35/62/14)	6004 (20/42/12)	40/68/10	35/56/7



REDUCTORES Y MOTORREDUCTORES DE TORNILLO SIN FIN CON PRE-REDUCCIÓN
WORM GEARBOXES AND WORMGEARED MOTORS WITH PRIMARY REDUCTION
REDUCTEURS ET MOTOREDUCTEURS A ROUE ET VIS SANS FIN AVEC REDUCTION
PRIMAIRE

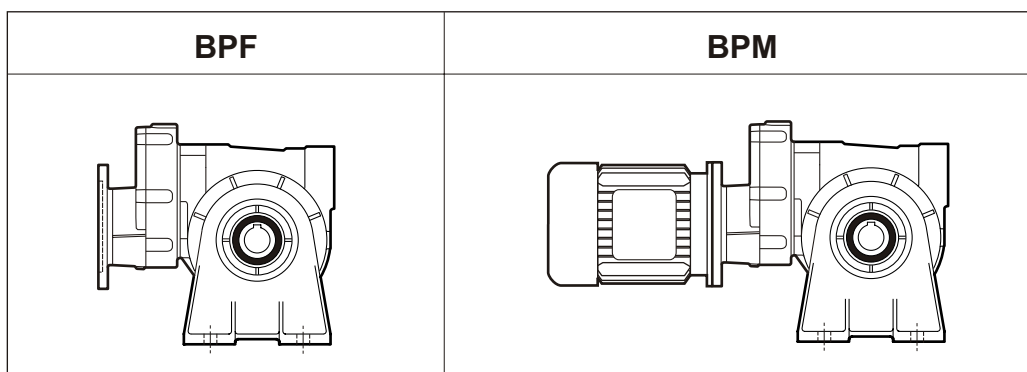
B

7.1 SIMBOLOGÍA Y NOMENCLATURA 7.1 SYMBOLS AND DESIGNATION 7.1 SYMBOLES ET DESIGNATION

Versiones

Versions

Versions



Designación

Designation

Désignation

BPF	50	A	1:120	PAM	71	B5	B3	...
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Versión <i>Version</i> Version	BPF - BPM
Tamaño <i>Frame size</i> Taille	40-50-63-70-85
Forma constructiva <i>Design</i> Forme de construction	A - B - V - F - P
Relación <i>Ratio</i> Rapport de réduction	45 ÷ 300
Ataque a motor <i>Motor coupling</i> Accouplement moteur	38
Posición de montaje <i>Mounting position</i> Position de montage	35

Opciones / Options / Options

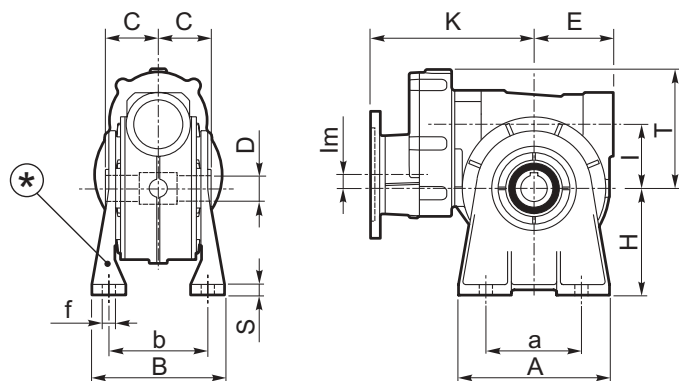
- Montaje brida de salida opuesto al montaje de catálogo (S)
Flange installed at opposite end as catalogue position (S)
 Montage de la bride de sortie contraire au catalogue (S)
- Rodamientos cónicos en la corona
Worm wheel taper bearings
 Roulements coniques sur la roue
- Sin fin prolongado
Double ended worm shaft
 Vis à deux arbres dépassants

7.2 DIMENSIONES SERIE B

7.2 DIMENSIONS B SERIES

7.2 DIMENSIONS SERIE B

BPF.../A

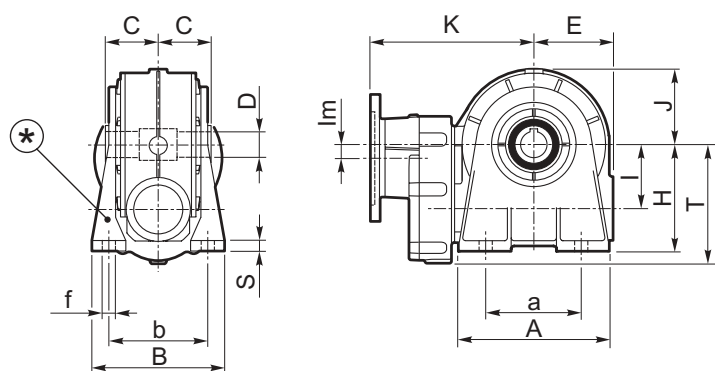


* **NOTA:** En los tamaños 63-70-85 las patas y la brida de salida son siempre modulares por lo tanto siempre estarán montadas sobre la brida pendular B.P

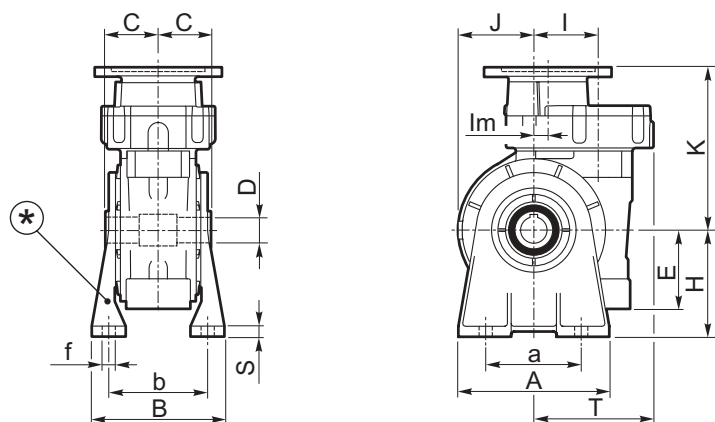
* **NOTE:** Frame sizes 63 - 70 - 85 come with modular feet and output flanges mounted to shaft-mounted flanges B.P. as standard.

* **NOTE :** les tailles 63-70-85 utilisent des pattes et des brides de sortie modulable montées sur des brides pendulaires B.P. en standard.

BPF.../B



BPF.../V



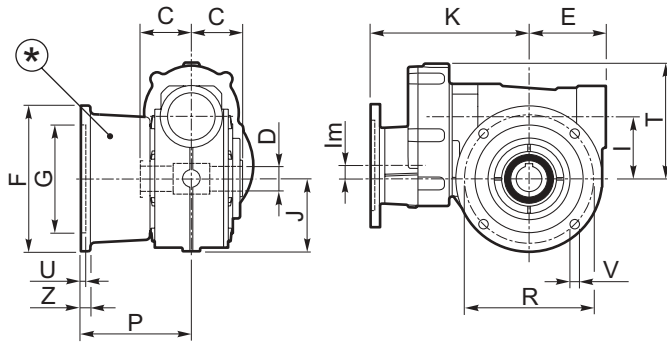
B	A	a	B	b	C	D (H7)	E	f ∅	F ∅	F _p ∅	G (H8)	G _p (h8)	H	I	I _v	I _m	J	K	M ₂	P	P _p	R ∅	R _p ∅	S	T	U	V ∅	X	Z
40	106	52	99	81	32	18	60	8.5	110	100	60	50	72	40	40	0	53	123	n°4 M6x8	60	38	87	65	9	83	5	9	1.5	8
50	126	63	115	98.5	41	25	70	9	125	120	70	68	82	50	50	0	64	141	n°4 M6x8	85	44	90	94	10	96	4.5	10	2	11
63	136	95	136	111	60	25	80	11	180	106	115	75	100	63	56.5	6.5	75	165	n°8 M8x12	116	45	150	90	12	118	7	11	12	11
70	156	120	144	116	60	28	85	11	200	128	130	90	115	70	69.5	0.5	85	187	n°8 M8x12	111	50	165	110	12	140	5	12	7	12
85	200	140	176	140 147	70	35	105	12	200	150	152	110	142	85	69.5	15.5	100	207	n°8 M10x14	151	56.5	176	130	14	155	6	13	10	13

7.2 DIMENSIONES SERIE B

7.2 DIMENSIONS B SERIES

7.2 DIMENSIONS SERIE B

BPF.../F



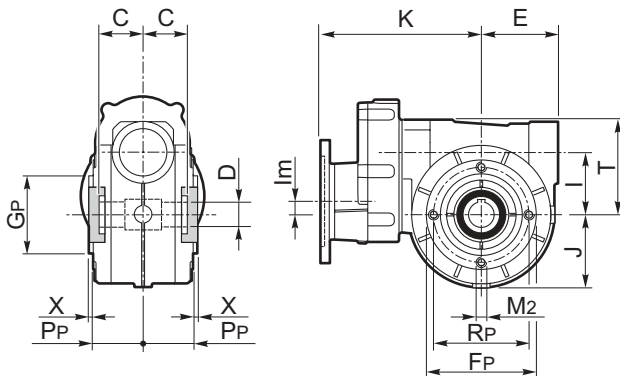
* **NOTA:** A partir del tamaño BP 50 la brida de salida F es modular, siendo ésta montada sobre la brida pendular B 50P.

* **NOTE:** Frame size BP 50 uses a modular output flange F mounted to the shaft-mounted flange B 50P.

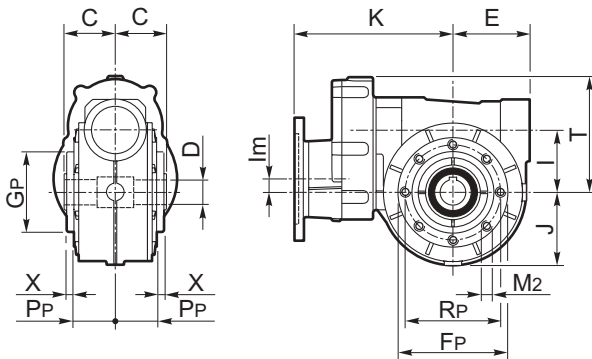
* **NOTE :** la taille BP 50 utilise une bride de sortie modulable F montée sur la bride pendulaire B 50 P.

Ver bridas especiales en pag. 28
See special flanges page 28
Voir les brides spéciales en page 28.

BPF 40-50/P



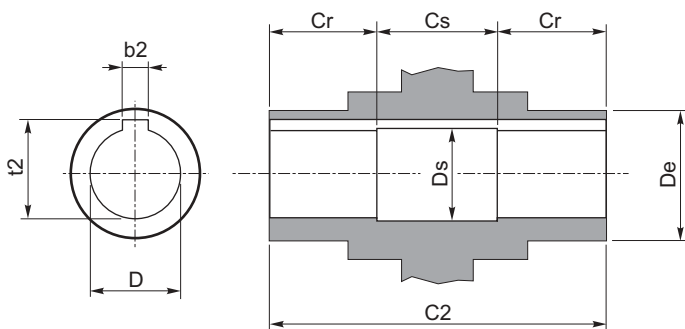
BPF 63-70-85/P



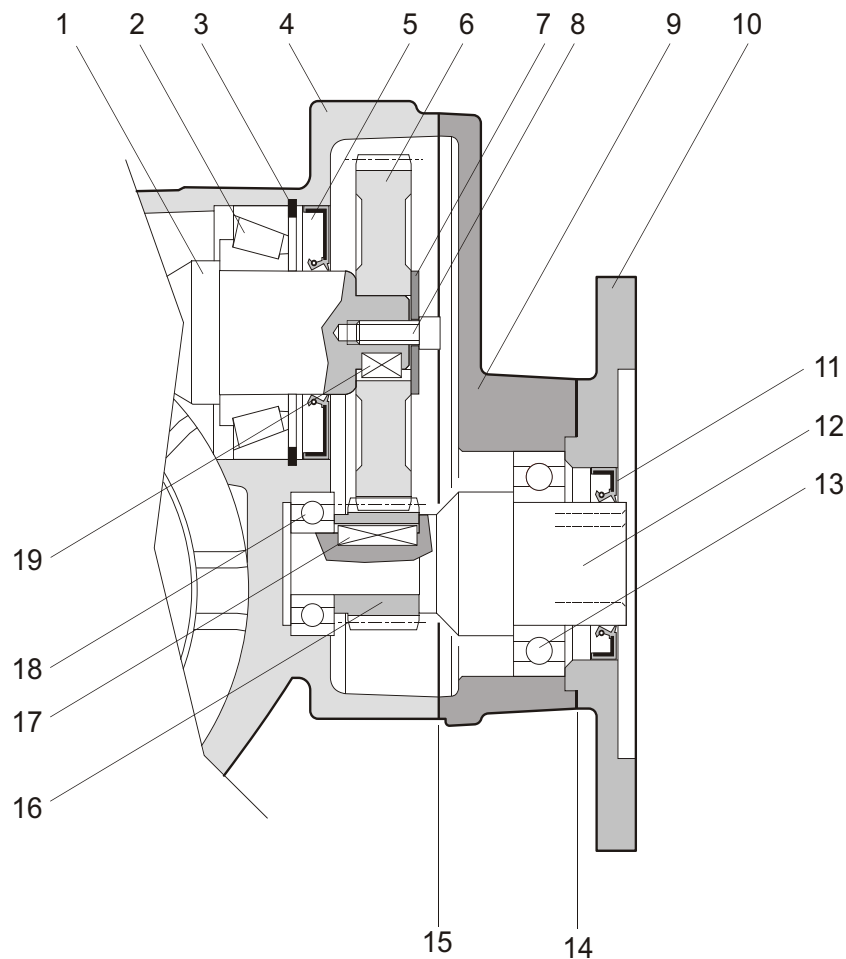
7.3 EJE HUECO

7.3 HOLLOW SHAFT

7.3 ARBRE CREUX



BP	b ₂ (H8)	D (H7)	D _e	D _s	t ₂	C ₂	C _r	C _s
40	6	18	30	18.5	20.8	64	22	20
50	8	25	40	25.5	28.3	82	30	22
63	8	25	40	25.5	28.3	120	45	30
70	8	28	45	28.5	31.3	120	45	30
85	10	35	50	35.5	38.3	140	45	50



	Vers.	Rodamientos / Bearings / Roulements		Retenes / Oilseals Simmerring / Bagues d'étanchéité	
		SPF - SPM		SPF - SPM	
		Pz. n. Part nb. Numéro de pièce	13	18	5
40	IEC: 56 - 63	6004 (20/42/12)	629 (9/26/8)	20/30/7	20/30/7
50	IEC: 63 - 71	6005 (25/47/12)	6201 (12/32/10)	25/47/7	25/35/7
63	IEC: 71 - 80	6006 (30/55/13)	6202 (15/35/11)	30/62/7	30/47/7
	IEC: 90	6007 (35/62/14)	6202 (15/35/11)	30/62/7	35/47/7
70	IEC: 71 - 80 - 90	6007 (35/62/14)	6004 (20/42/12)	40/68/10	35/56/7
85	IEC: 71 - 80 - 90	6007 (35/62/14)	6004 (20/42/12)	40/68/10	35/56/7